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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Application of: TI-35975
John T. Coffey Art Unit: 2661
Serial No: 10/696,045 Examiner:
Filed: October 29, 2003 Conf. No.: 5845
For: Increasing Effective Number of Data Tones in a Multi-Tone Communication System

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
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Respectfully submitted,



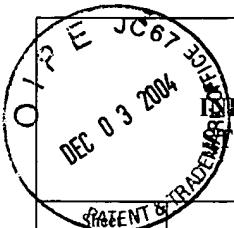
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of

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| Application Number | | | |
| Filing Date | | October 29, 2003 | |
| First Named Inventor | | John T. Coffey | |
| Group Art Unit | | 2661 | |
| Examiner Name | | | |
| Attorney Docket No. | | TI-35975 | |

U.S. PATENT DOCUMENTS

| Exam. Initials* | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Doc. | Date of Pub. of Cited Doc. (mm-dd-yyyy) | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|--------------------------|------------------------|--------------------------------------|--|---|--|
| | | Number | Kind Code ² (if known) | | | |
| | AA | US 2002/ 0075949 A1 | | Banerjea, et al. | 6/20/02 | |
| | AB | US 2001/ 0055287 A1 | | Sawada, et al. | 12/27/01 | |
| | AC | | | | | |
| | AD | | | | | |
| | AE | | | | | |
| | AF | | | | | |
| | AG | | | | | |

FOREIGN PATENT DOCUMENTS

| Exam. Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Doc. | Date of Pub. of Cited Doc. (mm-dd-yyyy) | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|--------------------------|-------------------------|---------------------|--------------------------------------|--|---|--|----------------|
| | | Office ³ | Number ⁴ | Kind Code ² (if known) | | | | |
| | BA | WO | 03/003634 A1 | | Matsushita Electric Industrial Co., Ltd. | 6/29/01 | | |
| | BB | WO | 03/028323 A1 | | Siemens | 6/14/02 | | |
| | BC | EP | 1 083 719 A2 | | Sony Corp. | 3/14/01 | | |
| | BD | | | | | | | |
| | BE | | | | | | | |
| | BF | | | | | | | |
| | BG | | | | | | | |

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

| Exam. Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Date Considered | T ² |
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Application No: GB0409812.5

Examiner: Owen Wheeler

Claims searched: 1-16

Date of search: 17 September 2004

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

| Category | Relevant to claims | Identity of document and passage or figure of particular relevance |
|----------|------------------------|--|
| X,Y | X:1-3,5-9,11-15;Y:4,10 | WO 03/003634 A1 [MATSUSHITA] See abstract and Fig. 2. |
| X,Y | X:1-3,5-9,11-15;Y:4,10 | WO 03/028323 A1 [SIEMENS] See abstract. |
| X,Y | X:1-3,5-9,11-15;Y:4,10 | EP 1083719 A2 [SONY] See abstract and Fig. 7. |
| X,Y | X:1,5-7,11-13;Y:4,10 | US 2001/055287 A1 [SAWADA] See abstract. |
| Y | Y:4,10 | US 2002/075949 A1 [BANERJEA] See abstract. |

Categories:

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| X Document indicating lack of novelty or inventive step | A Document indicating technological background and/or state of the art. |
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| & Member of the same patent family | E Patent document published on or after, but with priority date earlier than, the filing date of this application. |

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^W :

H4P

Worldwide search of patent documents classified in the following areas of the IPC⁰⁷

H04L

The following online and other databases have been used in the preparation of this search report

EPODOC, JAPIO, WPI, Inspec